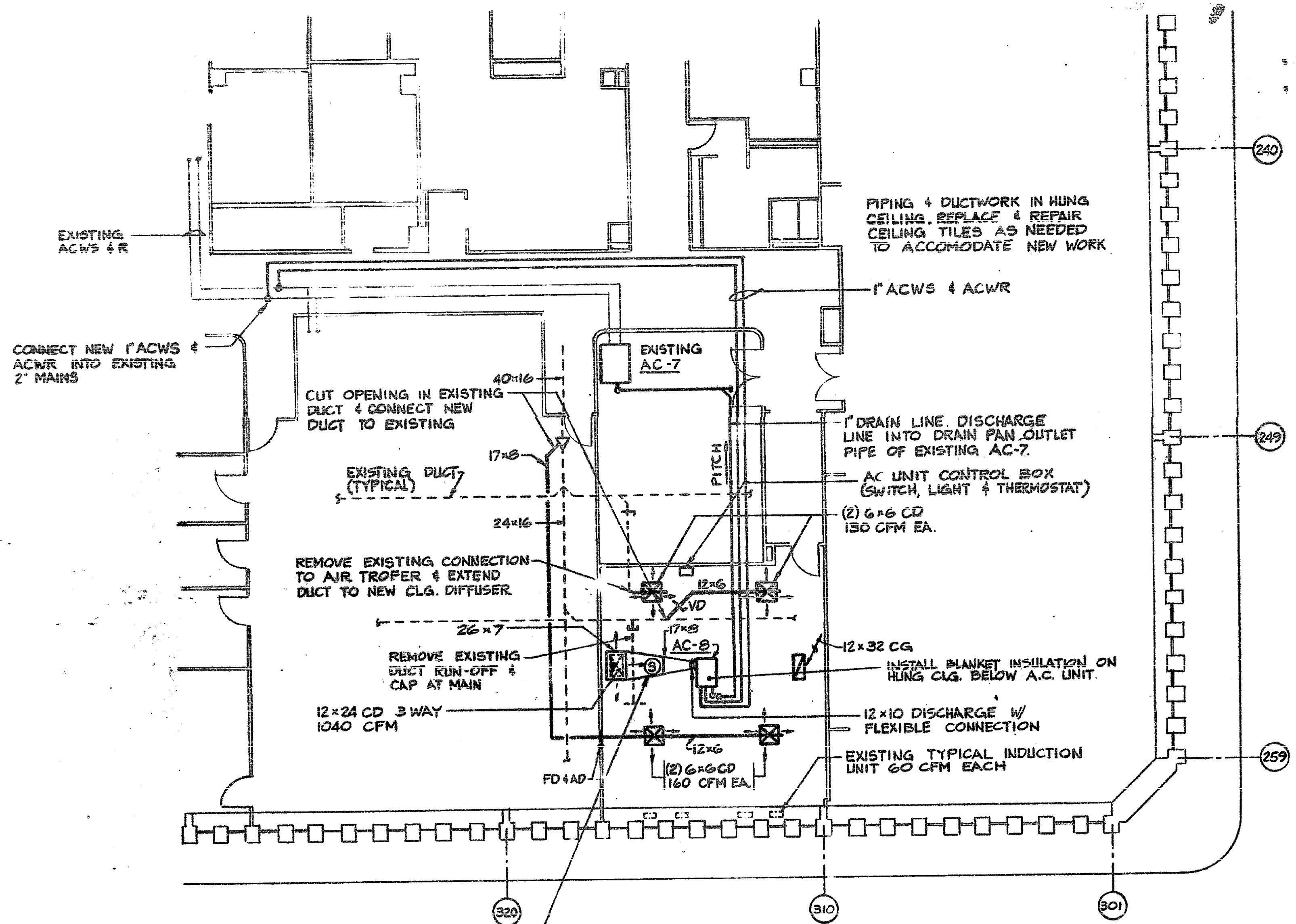
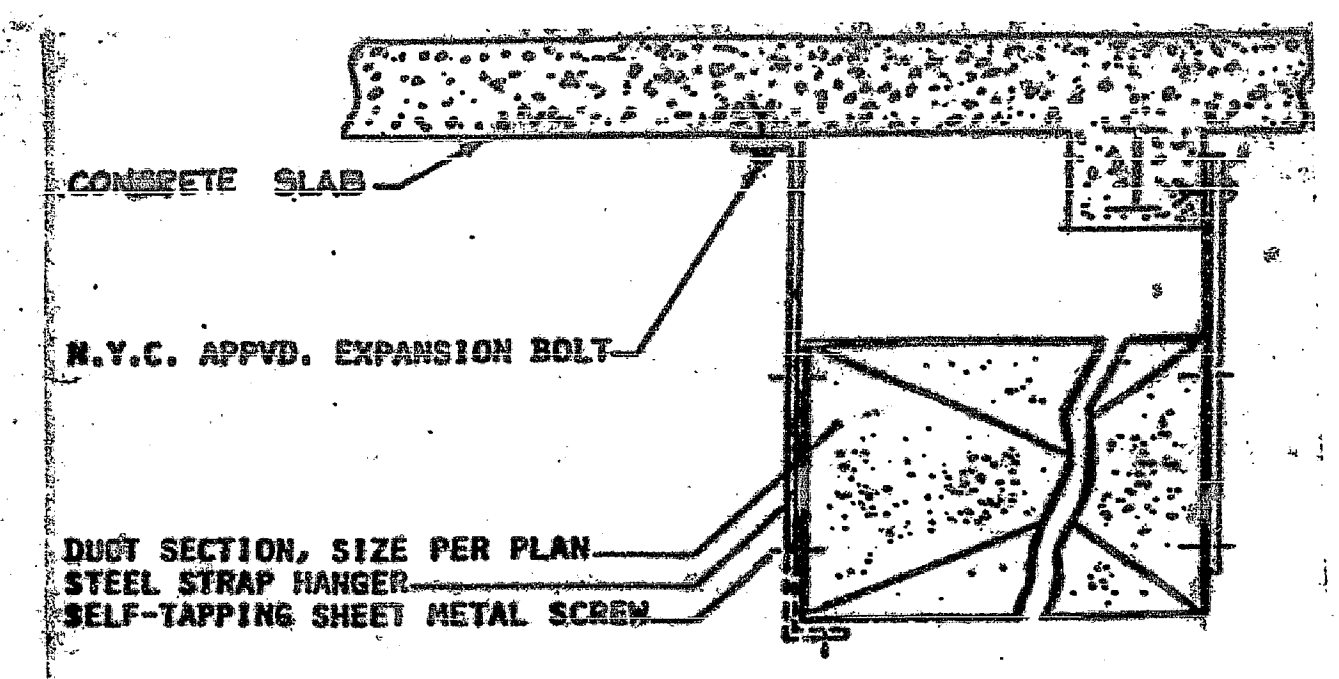
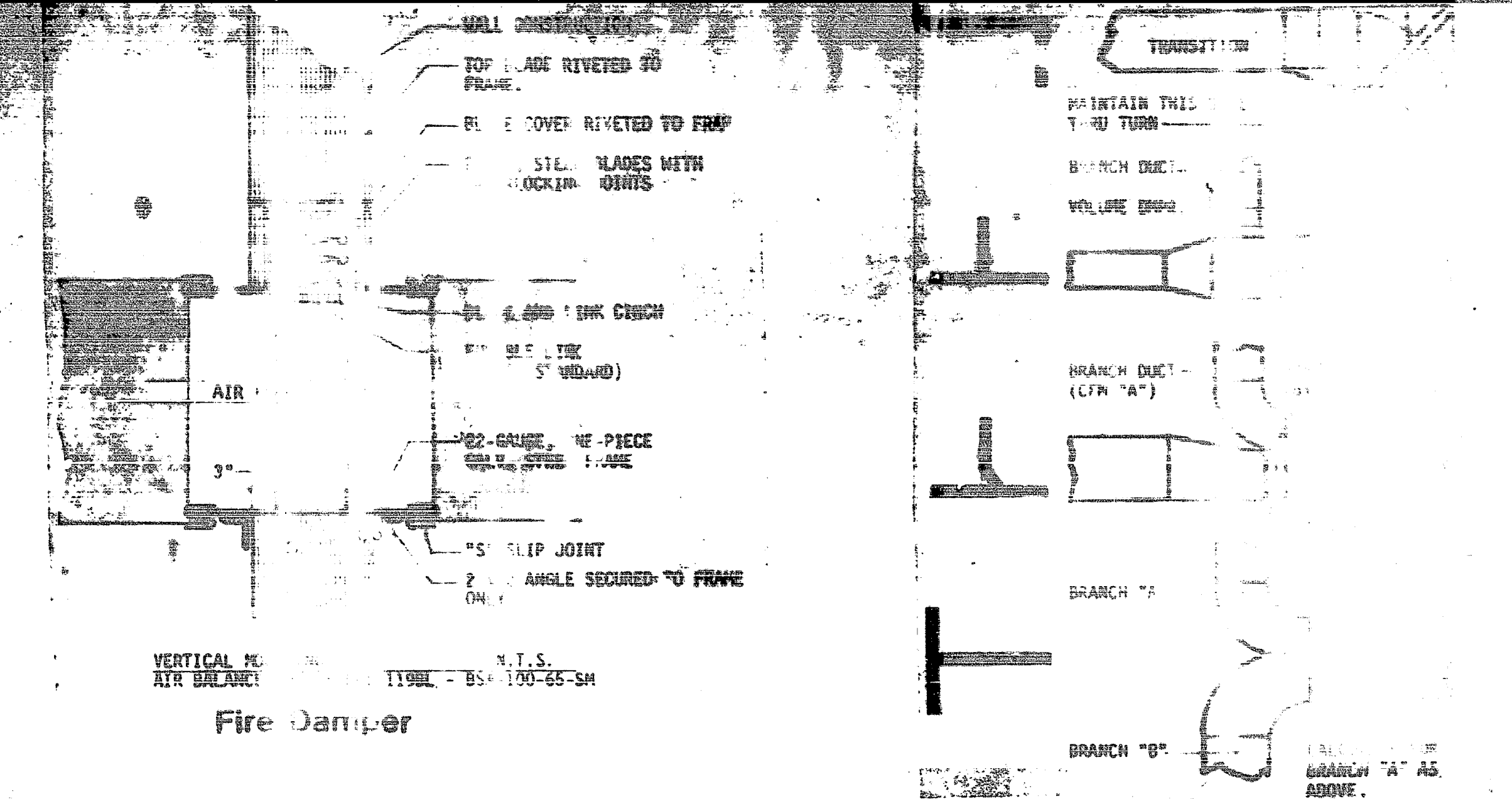
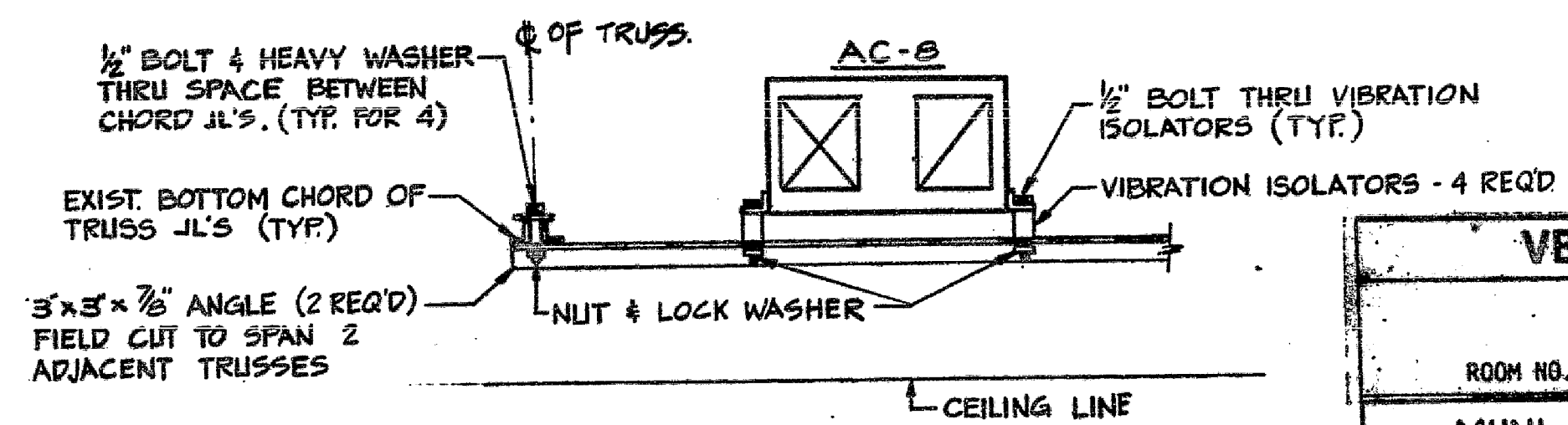
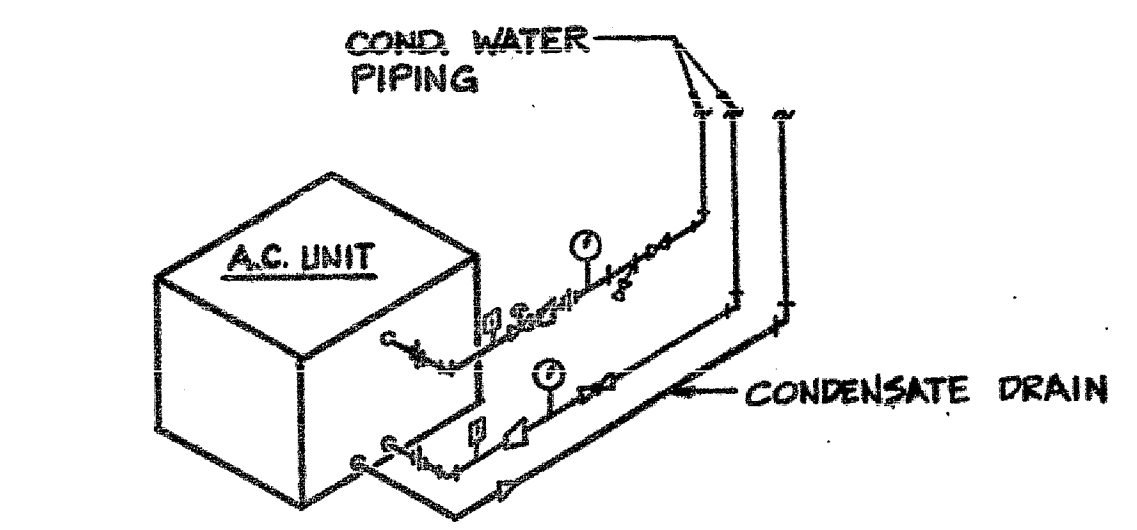


A 105
Cantor, Fitzgerald Securities
M-1 10/14/92 TAA 2392



SMOKE DETECTOR SIMILAR TO DA-4 AS MANUFACTURED BY PYROTRONICS TO STOP A.C. UNIT UPON ACTIVATION. SMOKE DETECTOR SHALL SEND SIGNAL TO EXISTING SMOKE PANEL. A.C. UNIT WILL ALSO STOP UPON RECEIVING SIGNAL FROM PANEL.



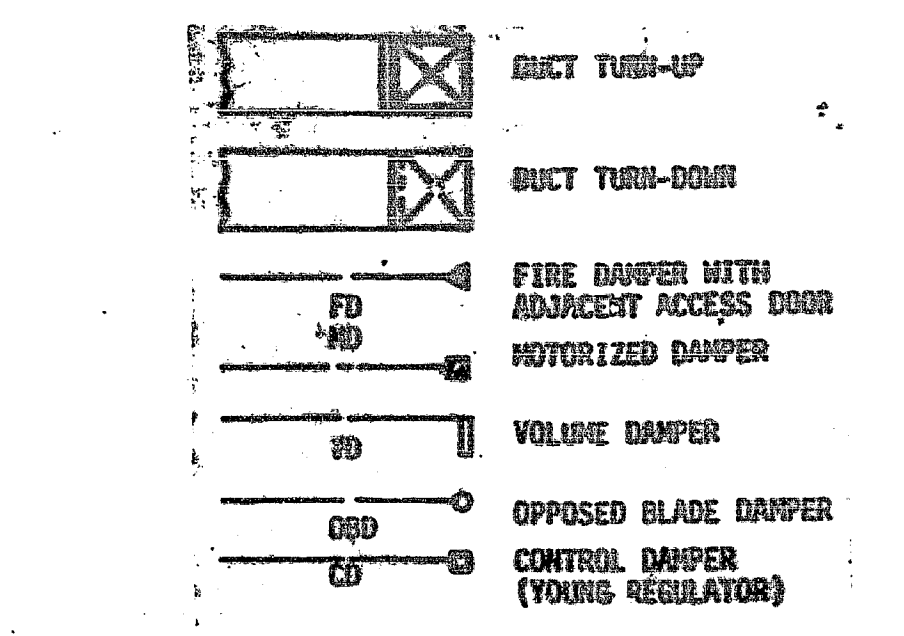
HANGER SPACING
DUCT FACE AREA FROM 0 TO 4 SQ. FT. 96" ON CENTER MAX.
4" 10" 72"
10 AND GREATER 48"

WHERE DUCTS ARE GREATER THAN TWO SQ. FT. IN FACE AREA, HANGERS SHALL BE SHEETMETAL, NOT LESS THAN 11-GA OR EQUIVALENT CROSS SECTIONAL AREA.

WHERE DUCTS ARE GREATER THAN EIGHT SQ. FT. IN FACE AREA, THEY SHALL BE BRACED BY 1" X 1" X 1/8" ANGLES ALL AROUND, SPACED NO MORE THAN 4-FT. ON CENTERS.

WHERE DUCT ARE OVER 48" WIDE, THE HANGERS SHALL BE BROUGHT DOWN UNDER THE DUCT SIDES 4" AND FASTENED TO THE DUCT BOTTOM.

Duct Hangers



Duct Symbols

Ventilation Notes

UPON COMPLETION OF VENTILATING SYSTEM INSTALLATION, CONTRACTOR SHALL CONDUCT A TEST UNDER THE DIRECTION OF A LICENSED, PROFESSIONAL ENGINEER QUALIFIED TO CONDUCT TEST WHICH SHALL SHOW COMPLIANCE WITH ALL BUILDING CODE REQUIREMENTS.

A LICENSED, PROFESSIONAL ENGINEER WILL FILL A CERTIFICATE AND REPORT OF TEST THAT THE SYSTEM COMPLIES WITH ALL APPLICABLE LAWS.

A STATEMENT WILL BE FILED BY OWNER THAT THE VENTILATING SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION DURING NORMAL OCCUPANCY OF PREMISES.

THE LATEST EDITION OF THE BUILDING CODE AS OF DECEMBER 6, 1968 SHALL BE COMPLIED WITH.

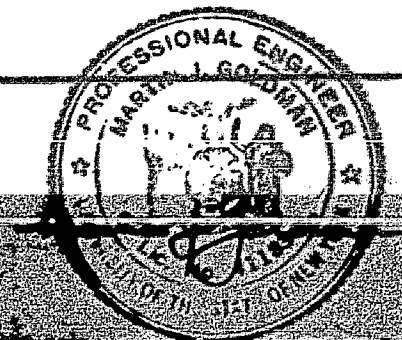
IN ADDITION TO THE ABOVE, CONTRACTOR SHALL HAVE CONTROLLED INSPECTIONS PERFORMED AS FOLLOWS INCLUDING FILING FORMS 10P AND 10E:

HEATING SYSTEM VENTILATION SYSTEM REFRIGERATION SYSTEM

VENTILATION INDEX														
ROOM NO. - NAME	FLOOR AREA [] x []	OPERABLE GLASS [] x []	VOLUME	TOTAL COLUMNS A+B+C	NO. OF PEOPLE D+E	INDEX D/E	CODE FACTOR		MIN. CODE REQTS.			ACTUAL		
							SUPP	EXH	SUPP	EXH	O.A.	SUPPLY	EXHAUST	OUTSIDE AIR
MUNI ROOM	5880	—	4998	10878	20	543	.9	.9	530	530	175	820	820	347 *

* 240 CFM FED BY INDUCTION UNITS (60% OUTSIDE AIR AS PER W.T.C. DWG. M-A-104).
OTHER UNIT BASED AT 35% OUTSIDE AIR AS PER W.T.C. DWG. M-A-104.

TAA/NO. 2392
DATE APPROVED 10/14/92



CANTOR FITZGERALD SECURITIES CORP.
WORLD TRADE CENTER

ALTERATION TO MUNI ROOM 105TH FLOOR
HVAC PART PLAN AND DETAILS

GOLDMAN, LOW, COPELAND, P.E.

Elmer Salzman, P.E.

DATE 10-14-92
JOB NUMBER 7002
DRAWN RS

Released For Construction